



LANDAU
ASSOCIATES,
INC.

Environmental and Geotechnical Services

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February 18, 1994

Mr. Mike Kuntz
Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

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SUPERFUND BRANCH

RE: COLBERT LANDFILL RD/RA
MONTHLY PROGRESS REPORT
JANUARY 1994

Dear Mr. Kuntz:

Presented herein is the progress report for the Colbert Landfill Remedial Design/Remedial Action Superfund project for the month of January 1994, which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed through February 28, 1994
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

- Construction by the contractor, Humphrey Construction, Inc. (Humphrey), of the remedial action (RA) continued. Landau Associates was onsite continuously to observe construction of RA facilities. Approximately 300 lineal ft of groundwater conveyance pipeline was constructed during this reporting period, completing the west interception system. The south and east interception systems were previously completed. An unsuccessful attempt was made by the contractor to flush part of the south interception system; due to difficulties encountered, pipeline flushing was postponed to a later date to permit the contractor to develop and submit to the engineer a more detailed flushing procedure plan. The air stripping tower and associated process equipment was installed. Reinforced concrete for the main building floor slab, fan room slab, and for various landings, walks, and equipment pads were constructed. Reinforced concrete foundations and containment structures for the air stripper and batch cleaning storage tank were grit-blasted and patched. Mechanical outfitting of the extraction wells was completed for the south interception wells. This work included installation of four groundwater extraction pumps with associated piping and

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ancillary equipment. Erection of the pre-engineered metal building was completed to approximately 90 percent level. Approximately 98 percent of the underground electrical, instrumentation, and control conduit systems were installed at the treatment facility and at the wells. Approximately 50 percent of the electrical equipment has been delivered to the site and installed. Hardware for the instrumentation and control panels has been assembled and was delivered to the site and installed. Approximately 98 percent of the major equipment and product submittals for the groundwater extraction systems and treatment facility have been received, processed, and returned to the contractor. The project is still estimated to be 60 days behind schedule due to delays associated with protracted lead times for construction materials and equipment resulting from delayed submittals by the contractor; construction errors by the contractor in the building foundation, building structural steel, and well vaults; and weather impacts. Contractor has been requested to increase construction manpower and equipment at the site to prevent future slippage of the schedule.

- Ershigs (the air stripping system supplier) completed delivery of all air stripping treatment equipment. Ershigs supervised Humphrey Construction during the installation of the air stripping equipment. Installation of the air stripping tower intervals and packing was scheduled for the first week in February. Test dates for the air stripping tower and fan were scheduled to being in late February.
- Applications for Federal Communication Commission licenses for the radio telemetry system were reviewed and returned to the Contractor for correction, then submission to the FCC.
- The results of the analysis of algal growth potential test results were compiled, evaluated and sent to the EPA and Ecology.
- Representatives from EPA and Ecology visited the site in mid-January to review the progress of the construction work, and discuss NPDES related issues. EPA and Ecology agreed to prepare and send a letter describing discharge requirements by February 21, 1994.
- Submitted final responses to EPA and Ecology comments on the final treatment and discharge plan.

2.0 ACTIVITIES/PROJECTS TO BE COMMENCED/COMPLETED DURING THE NEXT REPORTING PERIOD

Progress reports will be submitted monthly until construction is complete (estimated to be April 15, 1994), as prescribed in the project Consent Decree; consequently, the next reporting period will extend through February 28, 1994. Anticipated activities for February include:

- Continuing remedial action construction. Anticipated construction activities include:
 - Continue outfitting of groundwater extraction well vaults (electrical, instrumentation, piping, and pumps)
 - Construct remaining treatment facility concrete landings and walks.
 - Installation of air stripping tower intervals
 - Start up and commencement of operational testing of the air stripping system fan and air stripping tower equipment.
 - Continued installation of electrical transformers, services, metering facilities, switch gear, and motor control centers.
 - Install chemical resistant coating in air stripper and batch cleaning storage tank containment structures and in treatment facility.
 - Install batch cleaning storage tank.
 - Continue software programming for the instrumentation, control, and monitoring systems. This activity is anticipated to be completed in late February.
 - Complete erection of the treatment facility metal building and shed.
 - Continue construction of building secondary components, including nonstructural walls, doors, door frames, window frames, dry wall, plumbing, electrical, and miscellaneous finish work.
 - Commence construction of treatment facility process piping and equipment.
 - Receive and evaluation operational testing and system validation test plans prepared by Humphrey Construction and Ershigs.
- A public project status update meeting was scheduled for March 3, 1994; the meeting will be held at Mead High School in Spokane.
- Finalize the NPDES discharge monitoring requirements with Ecology and EPA.
- Continue preparation of the Operation and Maintenance Plan and Manual for the remedial action facility. Submission of the Operations and Maintenance Plan to EPA and Ecology for review is anticipated for mid-March 1994.

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

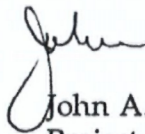
Harsh winter weather could slow or impair construction progress during the next reporting period, particularly if snow accumulates. Construction is progressing and is anticipated to be complete by April 15, 1994. Spokane County and Landau Associates

conducted special progress meetings with the contractor to emphasize the importance of getting the construction work completed on schedule and to ensure that all appropriate means are employed by the contractor to prevent further slippage in the schedule. System start up will require approximately 1 to 2 months following completion of construction, and it is anticipated that the remedial action will be fully operational by June 1994.

This report describes progress on only the primary project remedial action activities. There are peripheral activities associated with the primary activities which are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact Landau Associates or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:



John A. Markus, P.E.
Project Manager

JAM/sms
No. 124002.120

cc: Neil Thompson, U.S. Environmental Protection Agency
Dean Fowler, Spokane County
Lyle Diedieker, Ecology & Environment, Inc.